MLSL101 **LASER**

Part Number



Ambient temperature

Subsampling

Optical Data	
Working range Z	72108 mm
Measuring range Z	36 mm
Measuring range X	2734 mm
Linearity Deviation	18 <i>µ</i> m
Resolution Z	3,35,2 <i>μ</i> m
Resolution X	2228 μm
Light Source	Laser (red)
Wavelength	660 nm
Laser Class (EN 60825-1)	1M
Environmental conditions	

-20...70 °C Storage temperature 5000 Lux Max. Ambient Light DIN EN 61000-6-2; 61000-6-4 EMC Shock resistance per DIN IEC 68-2-27 30 g / 11 ms Vibration resistance per DIN IEC 60068-2-6 6 g (10...55 Hz)

Electrical Data Supply Voltage 18...30 V DC Current Consumption (Ub = 24 V) 300 mA Measuring Rate 200...4000 /s

Inputs/Outputs	4
Switching Output Voltage Drop	< 1,5 V
Switching Output/Switching Current	100 mA
Short Circuit Protection	yes

Reverse Polarity Protection ves Overload Protection yes Interface Ethernet TCP/IP

Baud Rate 100/1000 Mbit/s Protection Class FDA Accession Number 1610443-001

Mechanical Data Housing Material Aluminium: Plastic

Degree of Protection IP67 M12 × 1; 12-pin Connection

M12 × 1; 8-pin, X-cod. Type of Connection Ethernet Plastic, PMMA Optic Cover

Weight 290 g

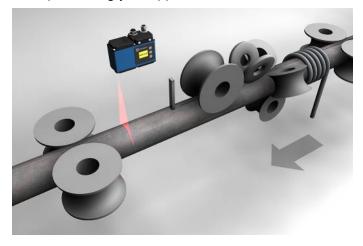
Web server yes Push-Pull

1022 1034 Connection Diagram No. X2 A22 Control Panel No. Suitable Connection Equipment No. 50 87 Suitable Mounting Technology No.



- Compact, lightweight design even suitable for robot applications
- Precise measuring range resolution X (> 1200 measuring points)
- Up to 3.6 million measuring points per second

2D/3D Profile Sensors project a laser line onto the object to be detected and generate an accurate, linearized height profile with an internal camera which is set up at a triangulation angle. Thanks to its uniform, open interface, the weCat3D series can be incorporated by means of the DLL program library or the GigE Vision standard without an additional control unit. Alternatively, wenglor offers its own software packages for implementing your application.



Complementary Products

Connection cables
Control Unit
Cooling Unit ZLSK001
Protective Housing ZLSS003
Protective Screen Retainer ZLSS001
Software
Switch EHSS001

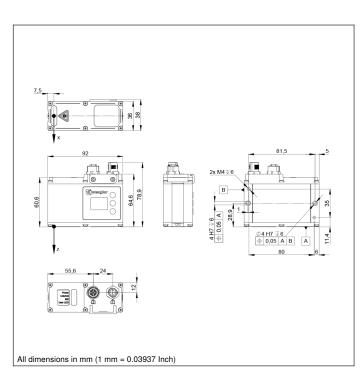
2D/3D Sensors

weCat3D

0...45 °C

800...4000 /s

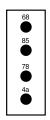
343

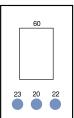


Ctrl. Panel

A22

X2





20 = Enter key

22 = Up key

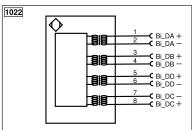
23 = Down key

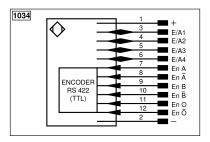
4a = User LED 60 = display

68 = supply voltage indicator

78 = Module status

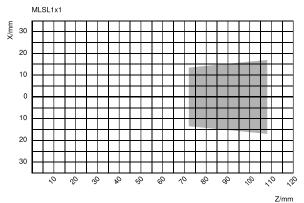
85 = Link/Act LED





+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
_	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
⊽	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Γ	Teach Input	Аму	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	<u>+</u>	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
②	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•	

Measuring field X, Z





X = Measuring Range









